



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 137435

To: Roy Teller
Location: REM-3D18
Art Unit: 1654
Friday, November 12, 2004

3C18

Case Serial Number: 09/743533

From: Beverly Shears
Location: Remsen Bldg.
RM 1A54
Phone: 571-272-2528

beverly.shears@uspto.gov

Search Notes

STIC-Biotech/ChemLib

From: Unknown [unknown.com]
Sent: Tuesday, November 09, 2004 8:21 AM
To: STIC-Biotech/ChemLib
Subject: Generic response

CRFF

ResponseHeader=Special Base Search Request

AccessDB#=

LogNumber=

Searcher=

SearcherPhone=

SearcherBranch=

MyDate=Tue Nov 9 08:01:04 2004

submitto=BiotechLib@stic.org

Name=Roy Teller

Empno=79445

Phone=571-272-0901

Artunit=1654

Office=Rem-3D18

Serialnum=09/749,551

PatClass=435/66

Earliest=7/12/95

Format1=paper

Format3=email

Searchtopic= Please perform reference search of SEQ ID NO: 19. Thank you.

Comments=

send=SEND

19-158aa

STAFF USE ONLY

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Searcher Phone: 2- _____
Date Searcher Picked up: _____
Date Completed: _____
Searcher Prep/Rev. Time: _____
Online Time: _____

Type of Search
NA Sequence: # _____
AA Sequence: # _____
Structure: # _____
Bibliographic: _____
Litigation: _____
Patent Family: _____
Other: _____

Vendors (check cost where applicable)
STN: _____
Dialog: _____
QUEST/ORBIS: _____
LEXIS/NEXIS: _____
SEQUENCE SYSTEM: _____
WWW/Internet: _____
Other (Specify): _____

Date completed: _____

Searcher: Beverly e 2528

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CPU time: _____

Total time: _____

Number of Searches: _____

Number of Databases: _____

Search Site

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Type of Search

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_____ A.A. Sequence
_____ Structure
_____ Bibliographic

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_____ IG
_____ STN
_____ Dialog
_____ APS
_____ Geninfo
_____ SDC
_____ DARC/Questel
☒ Other CGN

Teller, R
091743533
Seq ID 19 Interf

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: November 10, 2004, 19:14:39 ; Search time 468 Seconds

(without alignments)
374.068 Million cell updates/sec

Title: US-09-743-533-19

Perfect score: 906

Sequence: 1 MRQLNPSQELQSPQSYLQ.....PFQPPQPVPOQASCIWSMV 159

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 6730630 seqs, 110799698 residues

Total number of hits satisfying chosen parameters: 6730630

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Pending Patents AA Main:*

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- 6: /cgn2_6/prodata1/paa/US082 COMB pep:*
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- 22: /cgn2_6/prodata1/paa/US097B COMB pep:*
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- 25: /cgn2_6/prodata1/paa/US099B COMB pep:*
- 26: /cgn2_6/prodata1/paa/US100 COMB pep:*
- 27: /cgn2_6/prodata1/paa/US101 COMB pep:*
- 28: /cgn2_6/prodata1/paa/US102 COMB pep:*
- 29: /cgn2_6/prodata1/paa/US103 COMB pep:*
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- 31: /cgn2_6/prodata1/paa/US105 COMB pep:*
- 32: /cgn2_6/prodata1/paa/US106 COMB pep:*
- 33: /cgn2_6/prodata1/paa/US107 COMB pep:*
- 34: /cgn2_6/prodata1/paa/US108 COMB pep:*
- 35: /cgn2_6/prodata1/paa/US109 COMB pep:*
- 36: /cgn2_6/prodata1/paa/US60 COMB pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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Result No.	Score	Query Match	Length	DB	ID	Description
1	906	100.0	158	21	US-09-743-533-19	Sequence 19, Appl
2	517.5	57.1	160	31	US-10-508-263-110	Sequence 110, App
3	412	45.5	327	33	US-10-739-930-9623	Sequence 9623, App
4	405.5	44.8	186	31	US-10-508-263-111	Sequence 111, App
5	351	38.7	282	30	US-10-474-955-101	Sequence 101, App
6	347	38.3	279	30	US-10-474-955-97	Sequence 97, Appl
7	347	38.3	279	30	US-10-474-955-98	Sequence 98, Appl
8	347	38.3	279	30	US-10-739-930-9621	Sequence 9621, App
9	343	37.9	279	30	US-10-474-955-99	Sequence 99, Appl
10	337	37.2	279	30	US-10-474-955-100	Sequence 100, App
11	302	33.3	286	15	US-09-146-703-16	Sequence 16, Appl
12	302	33.3	286	15	US-09-146-703A-16	Sequence 16, Appl
13	302	33.3	286	20	US-09-683-666-16	Sequence 16, Appl
14	297	32.8	283	15	US-09-146-703-18	Sequence 18, Appl
15	270	29.8	298	33	US-10-739-930-9770	Sequence 9770, App
16	267.5	29.5	289	15	US-09-146-703-19	Sequence 19, Appl
17	264	29.1	288	15	US-09-146-703-17	Sequence 17, Appl
18	264	29.1	288	15	US-09-146-703A-17	Sequence 17, Appl
19	264	29.0	271	15	US-09-146-703-14	Sequence 14, Appl
20	262.5	29.0	271	15	US-09-146-703A-14	Sequence 14, Appl
21	262.5	29.0	271	20	US-09-683-666-14	Sequence 14, Appl
22	262.5	29.0	1162	1	PCT-US99-27508-2	Sequence 2, Appli
23	262.5	29.0	1162	27	US-10-194-046-2	Sequence 2, Appli
24	262.5	29.0	1162	28	US-10-294-804-2	Sequence 2, Appli
25	262.5	29.0	1162	28	US-10-294-804-2	Sequence 2, Appli
26	256	28.3	273	15	US-09-146-703-15	Sequence 15, Appl
27	256	28.3	273	15	US-09-146-703A-15	Sequence 15, Appl
28	256	28.3	273	20	US-09-683-666-15	Sequence 15, Appl
29	246	27.2	1351	28	US-10-282-122A-75147	Sequence 75147, A
30	244.5	27.0	1343	28	US-10-282-122A-75965	Sequence 75965, A
31	244.5	27.0	1362	1	PCT-US02-03987-14009	Sequence 14009, A
32	244.5	27.0	1362	23	US-09-815-242-14009	Sequence 14009, A
33	244.5	27.0	1362	26	US-10-072-851-14009	Sequence 14009, A
34	236.5	26.1	319	33	US-10-739-930-9619	Sequence 9619, App
35	234	25.8	266	26	US-10-089-700-3	Sequence 3, Appl
36	233.5	25.8	59	1	PCT-US03-37434-16	Sequence 16, Appl
37	233.5	25.8	287	33	US-10-739-930-9777	Sequence 9777, App
38	224	24.7	1758	36	US-60-556-841-9570	Sequence 9570, App
39	223	24.6	309	30	US-10-425-115-208032	Sequence 208032, A
40	222	24.5	181	30	US-10-449-902-32597	Sequence 32597, A
41	222	24.5	181	30	US-10-449-902-51824	Sequence 51824, A
42	222	24.5	296	1	PCT-US04-05654-824	Sequence 824, App
43	222	24.5	296	22	US-09-789-054A-10	Sequence 10, Appl
44	222	24.5	296	27	US-10-155-881-27802	Sequence 27802, A
45	222	24.5	296	29	US-10-374-780A-824	Sequence 824, App

ALIGNMENTS

RESULT 1
US-09-743-533-19
; Sequence 19, Application US/09743533
; GENERAL INFORMATION:
; APPLICANT: Commonwealth Scientific and Industrial Research Organisation
; TITLE OF INVENTION: Modified Proteins
; FILE REFERENCE: A-70233/RFT
; CURRENT APPLICATION NUMBER: US/09/743,533
; CURRENT FILING DATE: 2001-01-10
; PRIOR APPLICATION NUMBER: AU PP4604
; PRIOR FILING DATE: 1998-08-10
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 19
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: unknown
US-09-743-533-19

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Query Match      100.0%; Score 906; DB 21; Length 158;
Best Local Similarity 100.0%; Pred. No. 1.6e-63;
Matches 158; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRQLNPSQELQSQOQSYLQOQYFNQPNYLPQKPFVQOQPFHTPQOYFPYLPPEELFPQYQI 60
DB 1 MRQLNPSQELQSQOQSYLQOQYFNQPNYLPQKPFVQOQPFHTPQOYFPYLPPEELFPQYQI 60
QY 61 PTPLOQOQPFQOQOQPLRQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQ 120
DB 61 PTPLOQOQPFQOQOQPLRQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQ 120
QY 121 QOIIFFQOQSQSYVQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQ 158
DB 121 QOIIFFQOQSQSYVQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQ 158

RESULT 2
US-10-508-263-110
; Sequence 110, Application US/10508263
; GENERAL INFORMATION:
; APPLICANT: BASF Plant Science GmbH
; TITLE OF INVENTION: Constructs and methods for regulating gene expression
; FILE REFERENCE: 53262-20085.00
; CURRENT APPLICATION NUMBER: US/10/508,263
; CURRENT FILING DATE: 2004-09-20
; NUMBER OF SEQ ID NOS: 126
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 110
; LENGTH: 160
; TYPE: PRT
; ORGANISM: Hordeum vulgare
; US-10-508-263-110

Query Match      57.1%; Score 517.5; DB 31; Length 160;
Best Local Similarity 66.2%; Pred. No. 7.4e-33;
Matches 102; Conservative 8; Mismatches 19; Indels 25; Gaps 5;

QY 2 RQLNPSQELQSP-----QOQSYLQOQYFNQPNYLPQKPFVQOQPFHTPQOYFPYLPPEELF 55
DB 21 RQLNPSQELQSPQOQPLKQOQSYLQOQYFNQPNYLPQKPFVQOQPFHTPQOYFPYLPQOQTF 74
QY 56 PQYQIPTFLOQOQF-----PQOQOPLRQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQ 111
DB 75 PPSQOQNPLOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQ 134
QY 112 PQOQPFQOQOQIIFQOQOQSYVQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQ 145
DB 135 PQOQPF-----PQOQFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQ 159

RESULT 3
US-10-739-930-9623
; Sequence 9623, Application US/10739930
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
; FILE REFERENCE: 38-21(53377)B
; CURRENT APPLICATION NUMBER: US/10/739,930
; CURRENT FILING DATE: 2003-12-18
; NUMBER OF SEQ ID NOS: 11088
; SEQ ID NO 9623
; LENGTH: 327
; TYPE: PRT
; ORGANISM: Triticum aestivum
; FEATURE:
; OTHER INFORMATION: Clone ID: TRIAB-23APR03-C125_84.p
; US-10-739-930-9623

Query Match      45.5%; Score 412; DB 33; Length 327;
Best Local Similarity 50.0%; Pred. No. 3.2e-24;

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Matches 97; Conservative 12; Mismatches 37; Indels 48; Gaps 10;

QY 3 QLNPCSQE--LQSPQOQSYLQOQYFNQPNYLPQKPFVQOQPFHTPQOYFPYLPPEELFPQYQI 60
DB 22 QVDPQOQVQLQOQVLPQOQPLSQOQ-----QOQTFQOQOQTFHQOQOQVQOQOQ 72
QY 61 PTP--LQOQOQPFQOQOQPLP---RQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQ 110
DB 73 PQOQPLQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQ 132
QY 111 QOQOQPFQ--QOQOQIIFQOQOQOQ--YVQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQ 151
DB 133 QOQOQPFQOQOQOQ--PQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQ 191
QY 152 -----SCIWSMV 158
DB 192 CKPASLVSLWSII 205

RESULT 4
US-10-508-263-111
; Sequence 111, Application US/10508263
; GENERAL INFORMATION:
; APPLICANT: BASF Plant Science GmbH
; TITLE OF INVENTION: Constructs and methods for regulating gene expression
; FILE REFERENCE: 53262-20085.00
; CURRENT APPLICATION NUMBER: US/10/508,263
; CURRENT FILING DATE: 2004-09-20
; NUMBER OF SEQ ID NOS: 126
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 111
; LENGTH: 186
; TYPE: PRT
; ORGANISM: Hordeum vulgare
; US-10-508-263-111

Query Match      44.8%; Score 405.5; DB 31; Length 186;
Best Local Similarity 60.5%; Pred. No. 6e-24;
Matches 89; Conservative 10; Mismatches 25; Indels 23; Gaps 9;

QY 20 QOQYFNQPNYLPQKPFVQOQPFHTPQOQYFPYLPPEELFPQOY-QIPTPQOQOQPFQOQOQPFQOQOQPFQOQ 76
DB 5 QOQPFQOQ---PQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQ 61
QY 77 PTP-----RQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQ 126
DB 62 PTPQOQOQOQIISQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQ 120
QY 127 QOQOQSYVQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQOQPFQOQ 150
DB 121 QP---PQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQ 144

RESULT 5
US-10-474-955-101
; Sequence 101, Application US/10474955
; GENERAL INFORMATION:
; APPLICANT: Drifhout, Jan W.
; APPLICANT: Koning, Frits
; APPLICANT: McAdam, Stephan N.
; APPLICANT: Ludwig, Solid Magne
; TITLE OF INVENTION: METHODS AND MEANS FOR USE OF HLA-DQ RESTRICTED T-CELL RECEPTORS AN
; FILE REFERENCE: 2799/71244-PCT-US
; CURRENT APPLICATION NUMBER: US/10/474,955
; CURRENT FILING DATE: 2003-10-13
; NUMBER OF SEQ ID NOS: 137
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 101
; LENGTH: 282
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:

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; OTHER INFORMATION: Amino acid sequence of GAMMA-1
US-10-474-955-101

Query Match      38.7%; Score 351; DB 30; Length 282;
Best Local Similarity 51.0%; Pred. No. 1.8e-19;
Matches 80; Conservative 10; Mismatches 31; Indels 36; Gaps 7;

QY 31 QKPFVQPFHTPQYFYPLPEELFPYQIPTLPQPF--PQPFQPLPRPQQPFPMQ 88
DB 10 QVWPQQPFPHQPFSSQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQ 69

QY 89 PQPFPPQ-PPFIP--QPFQPF--QPFQPFQPFQPFQPFQPFQPFQPFQPFQ 143
DB 70 PQPFPPQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQ 122

QY 144 PQFVQQA-----SCISMV 158
DB 123 QFSLIQSLQQQLNPKCNFLQCKPVSLSVLSWSMI 159

RESULT 6
US-10-474-955-97
; Sequence 97, Application US/10474955
; GENERAL INFORMATION:
; APPLICANT: Drijfhout, Jan W.
; APPLICANT: Koning, Frits
; APPLICANT: McAdam, Stephan N.
; TITLE OF INVENTION: METHODS AND MEANS FOR USE OF HLA-DQ RESTRICTED T-CELL RECEPTORS A
; TITLE OF INVENTION: DQ BINDING PROLAMINE-DERIVED PEPTIDES
; FILE REFERENCE: 2799/71244-PCT-US
; CURRENT APPLICATION NUMBER: US/10/474,955
; CURRENT FILING DATE: 2003-10-13
; NUMBER OF SEQ ID NOS: 137
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 97
; LENGTH: 279
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Consensus amino acid sequence
US-10-474-955-97

Query Match      38.3%; Score 347; DB 30; Length 279;
Best Local Similarity 45.0%; Pred. No. 3.7e-19;
Matches 86; Conservative 11; Mismatches 24; Indels 70; Gaps 11;

QY 3 QLNPCSELQSPQSYLQPFYQNPVLPKPFVQPFHTPQYFYPLPEELFPYQIPT 62
DB 4 QVDPSSQ-VQWPQ---QPFVQ---PHQPFSSQ-----PQTFP----- 35

QY 63 PLQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPF 120
DB 36 --QPQTFPHQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPF 88

QY 121 QQII-----FQPFQSY--PVQPFQPFQPFQPFQPFQPFQPFQPFQPF 150
DB 89 QQLFPQSQQQQSQSQSQSQSQSQSQSQSQSQSQSQSQSQSQSQSQSQSQ 148

QY 151 ---ASCIWSMV 158
DB 149 VSLVSSLWSMI 159

RESULT 8
US-10-739-930-9621
; Sequence 9621, Application US/10739930
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
; TITLE OF INVENTION: PLANTS AND USES THEREOF FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53377)B
; CURRENT APPLICATION NUMBER: US/10/739,930
; CURRENT FILING DATE: 2003-12-18
; NUMBER OF SEQ ID NOS: 11088
; SEQ ID NO 9621
; LENGTH: 298
; TYPE: PRT
; ORGANISM: Triticum aestivum
; FEATURE:
; OTHER INFORMATION: Clone ID: TRIAE-23APR03-CL25_65.p
US-10-739-930-9621

Query Match      38.3%; Score 347; DB 33; Length 298;
Best Local Similarity 45.0%; Pred. No. 4e-19;
Matches 86; Conservative 11; Mismatches 24; Indels 70; Gaps 11;

QY 3 QLNPCSELQSPQSYLQPFYQNPVLPKPFVQPFHTPQYFYPLPEELFPYQIPT 62
DB 22 QVDPSSQ-VQWPQ---QPFVQ---PHQPFSSQ-----PQTFP----- 53

QY 63 PLQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPF 120
DB 54 --QPQTFPHQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPF 106

QY 121 QQII-----FQPFQSY--PVQPFQPFQPFQPFQPFQPFQPFQPFQPF 150
DB 107 QQLFPQSQQQQSQSQSQSQSQSQSQSQSQSQSQSQSQSQSQSQSQSQ 166

QY 151 ---ASCIWSMV 158
DB 167 VSLVSSLWSMI 177
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; OTHER INFORMATION: Amino acid sequence of GAMMA-1
US-10-474-955-101

Query Match      38.7%; Score 351; DB 30; Length 282;
Best Local Similarity 51.0%; Pred. No. 1.8e-19;
Matches 80; Conservative 10; Mismatches 31; Indels 36; Gaps 7;

QY 31 QKPFVQPFHTPQYFYPLPEELFPYQIPTLPQPF--PQPFQPLPRPQQPFPMQ 88
DB 10 QVWPQQPFPHQPFSSQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQ 69

QY 89 PQPFPPQ-PPFIP--QPFQPF--QPFQPFQPFQPFQPFQPFQPFQPFQPFQ 143
DB 70 PQPFPPQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQ 122

QY 144 PQFVQQA-----SCISMV 158
DB 123 QFSLIQSLQQQLNPKCNFLQCKPVSLSVLSWSMI 159

RESULT 6
US-10-474-955-97
; Sequence 97, Application US/10474955
; GENERAL INFORMATION:
; APPLICANT: Drijfhout, Jan W.
; APPLICANT: Koning, Frits
; APPLICANT: McAdam, Stephan N.
; TITLE OF INVENTION: METHODS AND MEANS FOR USE OF HLA-DQ RESTRICTED T-CELL RECEPTORS A
; TITLE OF INVENTION: DQ BINDING PROLAMINE-DERIVED PEPTIDES
; FILE REFERENCE: 2799/71244-PCT-US
; CURRENT APPLICATION NUMBER: US/10/474,955
; CURRENT FILING DATE: 2003-10-13
; NUMBER OF SEQ ID NOS: 137
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 97
; LENGTH: 279
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Consensus amino acid sequence
US-10-474-955-97

Query Match      38.3%; Score 347; DB 30; Length 279;
Best Local Similarity 45.0%; Pred. No. 3.7e-19;
Matches 86; Conservative 11; Mismatches 24; Indels 70; Gaps 11;

QY 3 QLNPCSELQSPQSYLQPFYQNPVLPKPFVQPFHTPQYFYPLPEELFPYQIPT 62
DB 4 QVDPSSQ-VQWPQ---QPFVQ---PHQPFSSQ-----PQTFP----- 35

QY 63 PLQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPF 120
DB 36 --QPQTFPHQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPFQPF 88

QY 121 QQII-----FQPFQSY--PVQPFQPFQPFQPFQPFQPFQPFQPFQPF 150
DB 89 QQLFPQSQQQQSQSQSQSQSQSQSQSQSQSQSQSQSQSQSQSQSQSQ 148

QY 151 ---ASCIWSMV 158
DB 149 VSLVSSLWSMI 159

RESULT 7
US-10-474-955-98
; Sequence 98, Application US/10474955
; GENERAL INFORMATION:
; APPLICANT: Drijfhout, Jan W.
; APPLICANT: Koning, Frits
; APPLICANT: McAdam, Stephan N.
; APPLICANT: Ludvig, Stephan N.
; TITLE OF INVENTION: METHODS AND MEANS FOR USE OF HLA-DQ RESTRICTED T-CELL RECEPTORS A
```

```
RESULT 9
US-10-474-955-99
; Sequence 99, Application US/10474955
; GENERAL INFORMATION:
; APPLICANT: Drifhout, Jan W.
; APPLICANT: Koning, Frits
; APPLICANT: McAdam, Stephan N.
; TITLE OF INVENTION: METHODS AND MEANS FOR USE OF HLA-DQ RESTRICTED T-CELL RECEPTORS A
; FILE REFERENCE: 2799/71244-PCT-US
; CURRENT APPLICATION NUMBER: US/10/474,955
; CURRENT FILING DATE: 2003-10-13
; NUMBER OF SEQ ID NOS: 137
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 99
; LENGTH: 279
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Amino acid sequence of GAMMA-4
US-10-474-955-99

Query Match      37.9%; Score 343; DB 30; Length 279;
Best Local Similarity 44.5%; Pred. No. 7.7e-19;
Matches 85; Conservative 12; Mismatches 24; Indels 70; Gaps 11;

QY 3 QLNPCSQELSPQSQSYLQDPYQNPYLQKPPFVQPPFHTPQQYFFPYLPBELFPQYQIPT 62
DB 4 QVDPSSQ-VQWPFQ-----QCPVFQ-----PHQPFSSQ-----PQOTFP----- 35

QY 63 FLQPPQPPFPQPPQPLPRPQQPFPWQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPP 120
DB 36 --QPQQTFFHPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPP 88

QY 121 QQIIL-----FQPPQPSY--PVQPPQPPFPQP-----QVPQQ----- 150
DB 89 QQLFPQSQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPP 148

QY 151 ---ASCIWSMV 158
DB 149 VSLVSSLWSMI 159

RESULT 10
US-10-474-955-100
; Sequence 100, Application US/10474955
; GENERAL INFORMATION:
; APPLICANT: Drifhout, Jan W.
; APPLICANT: Koning, Frits
; APPLICANT: McAdam, Stephan N.
; TITLE OF INVENTION: METHODS AND MEANS FOR USE OF HLA-DQ RESTRICTED T-CELL RECEPTORS A
; FILE REFERENCE: 2799/71244-PCT-US
; CURRENT APPLICATION NUMBER: US/10/474,955
; CURRENT FILING DATE: 2003-10-13
; NUMBER OF SEQ ID NOS: 137
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 100
; LENGTH: 279
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Amino acid sequence of GAMMA-3
US-10-474-955-100

Query Match      37.2%; Score 337; DB 30; Length 279;
Best Local Similarity 44.5%; Pred. No. 2.2e-18;
Matches 85; Conservative 11; Mismatches 25; Indels 70; Gaps 11;

QY 3 QLNPCSQELSPQSQSYLQDPYQNPYLQKPPFVQPPFHTPQQYFFPYLPBELFPQYQIPT 62
DB 4 QVDPSSQ-VQWPFQ-----QCPVFQ-----PHQPFSSQ-----PQOTFP----- 35

QY 63 FLQPPQPPFPQPPQPLPRPQQPFPWQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPP 120
DB 36 --QPQQTFFHPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPP 88

QY 121 QQIIL-----FQPPQPSY--PVQPPQPPFPQP-----QVPQQ----- 150
DB 89 QQLFPQSQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPP 148

QY 151 ---ASCIWSMV 158
DB 149 VSLVSSLWSMI 159

RESULT 11
US-09-146-703-16
; Sequence 16, Application US/09146703
; GENERAL INFORMATION:
; APPLICANT: Vang, Pia
; APPLICANT: Bech, Lene
; TITLE OF INVENTION: 17 kDa FOAM PROTEIN
; FILE REFERENCE: 11225.4US01
; CURRENT APPLICATION NUMBER: US/09/146,703
; CURRENT FILING DATE: 1998-09-03
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 16
; LENGTH: 286
; TYPE: PRT
; ORGANISM: Hordeum vulgare
US-09-146-703-16

Query Match      33.3%; Score 302; DB 15; Length 286;
Best Local Similarity 40.8%; Pred. No. 1.4e-15;
Matches 78; Conservative 13; Mismatches 40; Indels 60; Gaps 9;

QY 3 QLNPCSQELSPQSQSYLQDPYQNPYLQKPPFVQPPFHTPQQYFFPYLPBELFPQYQIPT 62
DB 3 QVNP-SVQVQPTQ-----QQYPES-----QQPISQSQ-----QQFPQPP 40

QY 63 FLQPPQPPFPQPPQPLPRPQQPFPWQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPP 109
DB 41 PQPQPPFPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPP 99

QY 110 QPQPPFPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPP 147
DB 100 QPPQS-YQPPFLQPPFPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPP 158

QY 148 PQASCIWSMV 158
DB 159 -SLLSYIWSKI 168

RESULT 12
US-09-146-703A-16
; Sequence 16, Application US/09146703A
; GENERAL INFORMATION:
; APPLICANT: VAAG, Pia
; APPLICANT: BECH, LENE M.
; APPLICANT: CAMERON-MILLS, VERENA
; APPLICANT: SORESENSEN, MIKAEL B.
; TITLE OF INVENTION: 17 kDa FOAM PROTEIN
; FILE REFERENCE: 11225.4US01
; CURRENT APPLICATION NUMBER: US/09/146,703A
; CURRENT FILING DATE: 1998-09-03
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 16
; LENGTH: 286
; TYPE: PRT
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; ORGANISM: Hordeum vulgare
US-09-146-703A-16

Query Match      33.3%; Score 302; DB 15; Length 286;
Best Local Similarity 40.8%; Pred. No. 1.4e-15;
Matches 78; Conservative 13; Mismatches 40; Indels 60; Gaps 9;

QY 3 QLNPCSQELSPQSQSYLQCPYQNPYLPQKPFVQCPHTPQQYFPYLPBELFPQYQIPT 62
DB 3 QVNP-SVQVQPTQ-----QQYPES-----QQPFISQSQ-----QQFPQPQPF 40
QY 63 PLQPCQPFPPQCPQPLPRPQCPFPWQCPQPFPPQ-----PQEPFQCPQPFPP 109
DB 41 PQCPQPFPPSQSQCLQCPQHCFP-QPTCQFPQPLPFTTHFTLTFDQLLPQPHQSFP 99
QY 110 QCPQCPFPQCPQIIFQCPQSQSYVPQCPQPF-----QQCPV 147
DB 100 QPQS-YPQPLQPFPPQCPQKYPEQCPFPWQCPHTPQQYLPQELNPKCKEFLQCCRPV 158
QY 148 PQASCIWSMV 158
DB 159 -SLLSYIWSKI 168

RESULT 13
US-09-683-666-16
; Sequence 16, Application US/09683666
; GENERAL INFORMATION:
; APPLICANT: Bech, Lene M.
; APPLICANT: Cameron-Mills, Verena
; APPLICANT: Sorensen, Mikael B.
; TITLE OF INVENTION: 17 kDa FOAM PROTEIN
; FILE REFERENCE: 11225.4USC1
; CURRENT FILING DATE: 2002-01-31
; PRIOR APPLICATION NUMBER: US/09/683,666
; PRIOR FILING DATE: 1998-09-03
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 16
; LENGTH: 286
; TYPE: PRT
; ORGANISM: Hordeum vulgare
US-09-683-666-16

Query Match      33.3%; Score 302; DB 20; Length 286;
Best Local Similarity 40.8%; Pred. No. 1.4e-15;
Matches 78; Conservative 13; Mismatches 40; Indels 60; Gaps 9;

QY 3 QLNPCSQELSPQSQSYLQCPYQNPYLPQKPFVQCPHTPQQYFPYLPBELFPQYQIPT 62
DB 3 QVNP-SVQVQPTQ-----QQYPES-----QQPFISQSQ-----QQFPQPQPF 40
QY 63 PLQPCQPFPPQCPQPLPRPQCPFPWQCPQPFPPQ-----PQEPFQCPQPFPP 109
DB 41 PQCPQPFPPSQSQCLQCPQHCFP-QPTCQFPQPLPFTTHFTLTFDQLLPQPHQSFP 99
QY 110 QCPQCPFPQCPQIIFQCPQSQSYVPQCPQPF-----QQCPV 147
DB 100 QPQS-YPQPLQPFPPQCPQKYPEQCPFPWQCPHTPQQYLPQELNPKCKEFLQCCRPV 158
QY 148 PQASCIWSMV 158
DB 159 -SLLSYIWSKI 168

RESULT 14
US-09-146-703-18
; Sequence 18, Application US/09146703
; GENERAL INFORMATION:
; APPLICANT: Varg, Pia
; APPLICANT: Bech, Lene
```

```
; TITLE OF INVENTION: 17 kDa FOAM PROTEIN
; FILE REFERENCE: 11225.4US01
; CURRENT APPLICATION NUMBER: US/09/146,703
; CURRENT FILING DATE: 1998-09-03
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 18
; LENGTH: 283
; TYPE: PRT
; ORGANISM: Hordeum vulgare
US-09-146-703-18

Query Match      32.8%; Score 297; DB 15; Length 283;
Best Local Similarity 40.8%; Pred. No. 3.3e-15;
Matches 77; Conservative 13; Mismatches 40; Indels 60; Gaps 9;

QY 4 LNPCSQELSPQSQSYLQCPYQNPYLPQKPFVQCPHTPQQYFPYLPBELFPQYQIPT 63
DB 1 VNP-SVQVQPTQ-----QQYPES-----QQPFISQSQ-----QQFPQPQPF 38
QY 64 LPQCPQPFPPQCPQPLPRPQCPFPWQCPQPFPPQ-----PQEPFQCPQPFPP 110
DB 39 QPQCPQPFPPSQSQCLQCPQHCFP-QPTCQFPQPLPFTTHFTLTFDQLLPQPHQSFP 97
QY 111 QPQCPQPFPPQCPQIIFQCPQSQSYVPQCPQPF-----QQCPV 148
DB 98 PQQS-YPQPLQPFPPQCPQKYPEQCPFPWQCPHTPQQYLPQELNPKCKEFLQCCRPV- 155
QY 149 PQASCIWSMV 158
DB 156 SLLSYIWSKI 165

RESULT 15
US-10-739-930-9770
; Sequence 9770, Application US/10739930
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
; TITLE OF INVENTION: PLANTS AND USES THEREOF FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53377)B
; CURRENT APPLICATION NUMBER: US/10/739,930
; CURRENT FILING DATE: 2003-12-18
; NUMBER OF SEQ ID NOS: 11088
; SEQ ID NO 9770
; LENGTH: 298
; TYPE: PRT
; ORGANISM: Triticum aestivum
; FEATURE:
; OTHER INFORMATION: Clone ID: TRIAB-23APR03-Cl76_183.p
US-10-739-930-9770

Query Match      29.8%; Score 270; DB 33; Length 298;
Best Local Similarity 32.1%; Pred. No. 4.7e-13;
Matches 79; Conservative 16; Mismatches 43; Indels 108; Gaps 11;

QY 3 QLNPCSQELSPQSQS-----YLCQYVP--QNPYLPQKPFVQCPHTPQQYFPYLPBELFPQ 57
DB 27 QLCQNPESQCPQKQVELVQCCQFPFGQCPFPQCPYFPQCPFPSSQ---PYMQLQPF 83
QY 58 YCITPQLQCPQFPQCPQLP-RPQCPFPQCPFPQCPFPQCPFPQCPFP----- 107
DB 84 POLPYP-QPOLYP-----QPQFPQPSYP-QPQYSPQCPFPISQCCQCCQCCQCCQ 137
QY 108 ----- 107
DB 138 ILQQLLQQLIPCRDVLVQLQHSIAHSSQVLQSTYQLVQCFCCQLWQLPEQSRCAIH 197
QY 108 -----PQCPQCPFPQCP-QCITFQCPQSY-----VQCPQFPQ-----Q 143
DB 198 NVVHAILHQHHHQQCCQCCQCCQCCQCCQCCQCCQCCQCCQCCQCCQCCQCCQ 257
QY 144 PQVPQ 149
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Fri Nov 12 16:26:53 2004

us-09-743-533-19.rapm

Page 6

Db 258 PQQLPQ 263
 || : ||

Search completed: November 10, 2004, 19:41:52
Job time : 469 secs

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OM protein - protein search, using sw model

Run on: November 10, 2004, 19:29:42 ; Search time 7 Seconds
(without alignments)
387.723 Million cell updates/sec

Title: US-09-743-533-19
Perfect score: 906
Sequence: 1 MRQNPQSQELQSQSQVILQ.....PFPQPPVPQQASCIKSMV 158

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 75407 seqs, 17177614 residues

Total number of hits satisfying chosen parameters: 75407

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Pending Patents AA New:
1: /cgn2_6/ptodata/1/paa/PCT_NEW_COMB.pep:
2: /cgn2_6/ptodata/1/paa/US05_NEW_COMB.pep:
3: /cgn2_6/ptodata/1/paa/US07_NEW_COMB.pep:
4: /cgn2_6/ptodata/1/paa/US08_NEW_COMB.pep:
5: /cgn2_6/ptodata/1/paa/US09_NEW_COMB.pep:
6: /cgn2_6/ptodata/1/paa/US10_NEW_COMB.pep:
7: /cgn2_6/ptodata/1/paa/US11_NEW_COMB.pep:
8: /cgn2_6/ptodata/1/paa/US60_NEW_COMB.pep:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	204	22.5	1404	6	US-10-868-577A-55
2	190.5	21.0	1864	6	US-10-732-923-2391
3	182	20.1	728	6	US-10-732-923-6679
4	178	19.6	626	6	US-10-732-923-16091
5	170.5	18.8	1003	6	US-10-732-923-3319
6	163	18.0	648	6	US-10-732-923-10742
7	156.5	17.3	2063	6	US-10-573-858-8
8	156	17.2	5322	6	US-10-732-923-8729
9	155	17.1	958	1	PCT-US04-14421-174
10	154.5	17.1	1634	6	US-10-732-923-8723
11	154.5	17.1	1638	6	US-10-732-923-8722
12	154.5	17.1	1638	6	US-10-732-923-8724
13	153	16.9	666	6	US-10-510-021-66
14	152	16.8	888	6	US-10-365-898-54
15	152	16.8	1534	6	US-10-732-923-8754
16	150.5	16.6	514	6	US-10-732-923-16074
17	150.5	16.6	521	6	US-10-732-923-16073
18	147	16.2	1568	6	US-10-732-923-8810
19	147	16.2	1586	6	US-10-732-923-8809
20	147	16.2	1586	6	US-10-732-923-8811
21	146.5	16.2	143	6	US-10-320-366A-18096
22	146	16.1	1572	6	US-10-732-923-8812
23	146	16.1	2414	6	US-10-732-923-18449
24	145	16.0	1038	6	US-10-867-092-151
25	144.5	15.9	2245	6	US-10-732-923-18446

26	144	15.9	36946	1	PCT-US04-14421-155
27	143	15.8	1651	6	US-10-732-923-8146
28	143	15.8	2999	6	US-10-732-923-8107
29	143	15.8	3035	6	US-10-732-923-8108
30	142	15.7	832	1	PCT-US04-18902-17
31	142	15.7	2957	6	US-10-732-923-8692
32	141.5	15.6	505	6	US-10-952-459-10
33	141.5	15.6	505	6	US-10-967-702-16
34	140.5	15.5	2132	1	PCT-US04-14421-195
35	139.5	15.4	580	6	US-10-959-539-41
36	137	15.1	3124	6	US-10-732-923-8854
37	135	14.9	1136	6	US-10-732-923-10694
38	135	14.9	1731	6	US-10-732-923-8855
39	135	14.9	2440	6	US-10-732-923-18452
40	135	14.9	2441	6	US-10-732-923-18428
41	134	14.8	99	6	US-10-320-366A-15968
42	134	14.8	2156	6	US-10-732-923-18431
43	133.5	14.7	647	6	US-10-732-923-7480
44	133	14.7	741	1	PCT-US04-18902-15
45	132	14.6	2429	6	US-10-732-923-18427

ALIGNMENTS

RESULT 1
US-10-868-577A-55
; Sequence 55, Application US/10868577A
; GENERAL INFORMATION:
; APPLICANT: Alicata et al.
; TITLE OF INVENTION: HEPARIN BINDING VEGFR-3 LIGANDS
; FILE REFERENCE: 28967/39359A
; CURRENT APPLICATION NUMBER: US/10/868,577A
; CURRENT FILING DATE: 2004-06-14
; PRIOR APPLICATION NUMBER: US 60/478,390
; PRIOR FILING DATE: 2003-06-12
; PRIOR APPLICATION NUMBER: US 10/669,176
; PRIOR FILING DATE: 2003-09-23
; NUMBER OF SEQ ID NOS: 69
; SOFTWARE: Patent In version 3.2
; SEQ ID NO 55
; LENGTH: 1404
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-868-577A-55

Query Match	22.5%	Score 204;	DB 6;	Length 1404;
Best Local Similarity	30.2%	Pred. No. 9.9e-10;		
Matches	42;	Conservative	28;	Mismatches 59;
			Indels	10;
			Gaps	4;
QY	12	OSQOSYLOQYPQNPYLPQKPFVQOPFHTFPQOYFFYLPSEELFPQYCIPTLPQOQFPF 71		
DB	394	KEPAPTTTKEPAPTTTKEP-APTTTKEPAPTTTKEPAPTTTKEPAPTTTKEPAPTTTKEPAP 445		
QY	72	QOQOPLP-RQOQFPFPQOFPQOEPFIPQOQFPFPQOFPFPQOFPFPQOFPFPQOFPFPQ 130		
DB	446	TTKEPAPTTTKEPAPTTTKEPAPTTTKEPAPTTTKEPAPTTTKEPAPTTTKEPAPTTTKEPAP 505		
QY	131	SYVQOQOFPFPQO-PQVP 148		
DB	506	PAPTTTKEPAPTTTKEPAP 524		

RESULT 2
US-10-732-923-2391
; Sequence 2391, Application US/10732923
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154

; PRIOR FILING DATE: 2002-12-04
 ; NUMBER OF SEQ ID NOS: 24149
 ; SEQ ID NO 2391
 ; LENGTH: 1864
 ; TYPE: PRT
 ; ORGANISM: Burkholderia fungorum
 US-10-732-923-2391

Query Match 21.0%; Score 190.5; DB 6; Length 1864;
 Best Local Similarity 28.5%; Pred. No. 1.7e-08;
 Matches 69; Conservative 11; Mismatches 59; Indels 103; Gaps 12;
 QY 5 NPCQELSPQOSVLOQYPQNPVLPKPPFVQOQFHTPQOYFYPYLP----- 51
 Db 1169 NAARASLPYSSLSFTQVFNYP--PPTQAPYVAPYTAPAO--PYAENRPAALPYNAPR 1225
 QY 52 -----ELFFQYQIPTLPQO-----QFPQOQOQPLPRPQOQFPWOP-----QOPEP 94
 Db 1226 QGADSGGYQAYSGSGAPLQYPYQGGQP-FWQPOAQWPMQQAQYVNPAYPQAPYP 1284
 QY 95 QOQPIPOQPO-----QFPF-----QOP----- 112
 Db 1285 QAOAPYPOQACYGAPDGYATPFWMSPAAREAQTNAGSMQOQPYGAPGASTKRPAGKQS 1344
 QY 113 -----QOPEPQOQIIFQO-----QOQYVQOQOQFPFQOQOQV 148
 Db 1345 ASKNSRNAPAVAAQYQOQOQYPOO-QAYYQYVAYAQOQOQGYPOQYQY--QYPPQ 1401
 QY 149 QQ 150
 Db 1402 QQ 1403

RESULT 3

US-10-732-923-6679
 ; Sequence 6679, Application US/10732923
 ; GENERAL INFORMATION:

; APPLICANT: Edgerton, Michael D
 ; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES

; FILE REFERENCE: 38-15(52796)C
 ; CURRENT APPLICATION NUMBER: US/10/732,923

; CURRENT FILING DATE: 2003-12-10

; PRIOR APPLICATION NUMBER: 10/310,154

; PRIOR FILING DATE: 2002-12-04

; NUMBER OF SEQ ID NOS: 24149

; SEQ ID NO 6679

; LENGTH: 728

; TYPE: PRT

; ORGANISM: Candida tropicalis

US-10-732-923-6679

Query Match 20.1%; Score 182; DB 6; Length 728;
 Best Local Similarity 36.6%; Pred. No. 3.2e-08;
 Matches 63; Conservative 10; Mismatches 65; Indels 34; Gaps 11;

QY 6 PCSQELSPQOSVLOQYPQNPVLPKPPFVQOQFHTPQOYFYPYLPQYQIPTLPQ 65
 Db 187 PMYQYBIPQONITYDYNLN-----MNFQOQOQPPPPPPQPFMYNNQ--PQ-PVPPPLP 238
 QY 66 PQQFPQOQOQPLPRPQ-----QFPWQOQFPF---QOQPIPOQPO-----PFP----- 109
 Db 239 PPPLAAN-QOQLPTQFVGVGYFYQVGSIIIPQSQO-PVQPPPPQAAAPVPSGV 296
 QY 110 -----QOQOQFPQOQ-QOIIIFQOQO-----SYVQOQOQFPQOQVPPQOQASC 153
 Db 297 FTNFSQPPSPSQOPISQMNLQPSQNSANTFQIQOQ-PQHVPPPTKQDC 348

RESULT 4

US-10-732-923-16091

; Sequence 16091, Application US/10732923

; GENERAL INFORMATION:

; APPLICANT: Edgerton, Michael D

; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
 ; FILE REFERENCE: 38-15(52796)C
 ; CURRENT APPLICATION NUMBER: US/10/732,923

; CURRENT FILING DATE: 2003-12-10

; PRIOR APPLICATION NUMBER: 10/310,154

; PRIOR FILING DATE: 2002-12-04

; NUMBER OF SEQ ID NOS: 24149

; SEQ ID NO 16091

; LENGTH: 626

; TYPE: PRT

; ORGANISM: Neurospora crassa

US-10-732-923-16091

Query Match 19.6%; Score 178; DB 6; Length 626;
 Best Local Similarity 29.7%; Pred. No. 5.8e-08;
 Matches 60; Conservative 15; Mismatches 46; Indels 81; Gaps 9;

QY 1 MEQLNP-----CSQELSPQOSVLOQYPQNPVLPKPPFVQOQFHTPQOYFYPYLP 52
 Db 164 IRLRPGQFVRPAGVAGLQ-----RSAFVSPFIYNSQP-----PA 201
 QY 53 ELFFQYQIPTLPQOQOQFPQOQPLPRPQOQFPWQOQOQFP----- 94
 Db 202 SNAPTHGLPTQLHFOYF--QPSQPPAHSMQOQFEDORSPLPTFVSQPPHARRHSTS 259
 QY 95 -----QOPEP-----IPQOQO-----PFPQOQOQFPQOQOQIIF 125
 Db 260 PPELQPCIQPOOVHRHSASQVHQALPQOQFORLPSANMSPPPPPQPAQPPQOQOQHRH 319
 QY 126 QOQO-QSYVQOQOQFPQOQOQ 146
 Db 320 QOQOQPSMNPQNLQD-PAPPXP 340

RESULT 5

US-10-732-923-3319

; Sequence 3319, Application US/10732923

; GENERAL INFORMATION:

; APPLICANT: Edgerton, Michael D

; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES

; FILE REFERENCE: 38-15(52796)C

; CURRENT APPLICATION NUMBER: US/10/732,923

; CURRENT FILING DATE: 2003-12-10

; PRIOR APPLICATION NUMBER: 10/310,154

; PRIOR FILING DATE: 2002-12-04

; NUMBER OF SEQ ID NOS: 24149

; SEQ ID NO 3319

; LENGTH: 1003

; TYPE: PRT

; ORGANISM: Kaposi's sarcoma-associated herpesvirus

US-10-732-923-3319

Query Match 18.8%; Score 170.5; DB 6; Length 1003;
 Best Local Similarity 46.7%; Pred. No. 4e-07;
 Matches 43; Conservative 7; Mismatches 39; Indels 3; Gaps 2;

QY 56 PQYQIPTLPQOQOQFPQOQOQPLPRPQOQFPWQ--PQOQFPQOQPIPOQOQFPQOQ 113
 Db 434 PQOQEPQOQEPQOQEPQO-QEPLQEPQOQEPQOQEPQOQEPQOQEPQOQEPQOQ 492
 QY 114 QPFFQOQOQIIFQOQOQSYVQOQOQFPQOQ 145
 Db 493 EQQDEQQQDEQQDEQQDEQQDEQQDE 524

RESULT 6

US-10-732-923-10742

; Sequence 10742, Application US/10732923

; GENERAL INFORMATION:

; APPLICANT: Edgerton, Michael D

; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES

; FILE REFERENCE: 38-15(52796)C

; CURRENT APPLICATION NUMBER: US/10/732,923


```

; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 8723
; LENGTH: 1634
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-10-732-923-8723

Query Match
Best Local Similarity 17.1%; Score 154.5; DB 6; Length 1634;
Matches 58; Conservative 9; Mismatches 68; Indels 47; Gaps 7;

QY 6 PCSQELSPQOSYLQOYPQNPYLP-----QKPPVQOPFH-----TPQ 44
Db 193 PISMOMQALQAQQPPGPIGPGAGPGPPGSGHAGQPPVPPQOQQPPPSAGTTP 252
QY 45 Q-----YFYLPELFFQYQIPTLPQOQFFPQOQ---PLPRPQOQFFPQOQ 92
Db 253 QCTTPASNPYGPVPGQKQVAPPFPHMQOQGLPFPQVGGPPPIQOQPPQOQQQ 312
QY 93 FPQOERIPQOQOQPPFQOQPPFQOQIIFQOQOQSVVQO-----QPPQOQ 144
Db 313 -SQPPPEPHQHLPNGKPLSMGPGSGQPLI-----PSSPMQPVGRGTLPGMPGSGV 366
QY 145 QP 146
Db 367 QP 368

RESULT 11
US-10-732-923-8722
; Sequence 8722, Application US/10732923
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 8722
; LENGTH: 1638
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-10-732-923-8722

Query Match
Best Local Similarity 17.1%; Score 154.5; DB 6; Length 1638;
Matches 58; Conservative 9; Mismatches 68; Indels 47; Gaps 7;

QY 6 PCSQELSPQOSYLQOYPQNPYLP-----QKPPVQOPFH-----TPQ 44
Db 197 PISMOMQALQAQQPPGPIGPGAGPGPPGSGHAGQPPVPPQOQQPPPSAGTTP 256
QY 45 Q-----YFYLPELFFQYQIPTLPQOQFFPQOQ---PLPRPQOQFFPQOQ 92
Db 257 QCTTPASNPYGPVPGQKQVAPPFPHMQOQGLPFPQVGGPPPIQOQPPQOQQQ 316
QY 93 FPQOERIPQOQOQPPFQOQPPFQOQIIFQOQOQSVVQO-----QPPQOQ 144
Db 317 -SQPPPEPHQHLPNGKPLSMGPGSGQPLI-----PSSPMQPVGRGTLPGMPGSGV 370
QY 145 QP 146
Db 371 QP 372

RESULT 12
US-10-732-923-8724
; Sequence 8724, Application US/10732923
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 8724
; LENGTH: 1638
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-10-732-923-8724

Query Match
Best Local Similarity 17.1%; Score 154.5; DB 6; Length 1638;
Matches 58; Conservative 9; Mismatches 68; Indels 47; Gaps 7;

QY 6 PCSQELSPQOSYLQOYPQNPYLP-----QKPPVQOPFH-----TPQ 44
Db 197 PISMOMQALQAQQPPGPIGPGAGPGPPGSGHAGQPPVPPQOQQPPPSAGTTP 256
QY 45 Q-----YFYLPELFFQYQIPTLPQOQFFPQOQ---PLPRPQOQFFPQOQ 92
Db 257 QCTTPASNPYGPVPGQKQVAPPFPHMQOQGLPFPQVGGPPPIQOQPPQOQQQ 316
QY 93 FPQOERIPQOQOQPPFQOQPPFQOQIIFQOQOQSVVQO-----QPPQOQ 144
Db 317 -SQPPPEPHQHLPNGKPLSMGPGSGQPLI-----PSSPMQPVGRGTLPGMPGSGV 370
QY 145 QP 146
Db 371 QP 372

RESULT 13
US-10-510-021-66
; Sequence 66, Application US/10510021
; GENERAL INFORMATION:
; APPLICANT: Cole, Stewart
; APPLICANT: Pym, Alexander S
; APPLICANT: Brosch, Roland
; APPLICANT: Brodin, Priscille
; APPLICANT: Majlessi, Laïeh
; APPLICANT: Demange, Caroline
; APPLICANT: Leclerc, Claude
; TITLE OF INVENTION: Identification of virulence associated regions RD1 and
; TITLE OF INVENTION: RD5 leading to improve vaccine of M. bovis BCG and M.
; TITLE OF INVENTION: microti
; FILE REFERENCE: D20217
; CURRENT APPLICATION NUMBER: US/10/510,021
; CURRENT FILING DATE: 2004-10-01
; PRIOR APPLICATION NUMBER: PCT/IB03/01789
; PRIOR FILING DATE: 2003-04-01
; PRIOR APPLICATION NUMBER: EP 02/290864
; PRIOR FILING DATE: 2002-04-05
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn ver. 2.1
; SEQ ID NO 66
; LENGTH: 666
; TYPE: PRT
; ORGANISM: mycobacterium tuberculosis
; FEATURES:
; OTHER INFORMATION: Protein sequence Rv3876
US-10-510-021-66

Query Match
Best Local Similarity 16.9%; Score 153; DB 6; Length 666;
Matches 51; Conservative 12; Mismatches 74; Indels 30; Gaps 9;

QY 6 PCSQELSPQOSYLQOYPQNPYLP-----QKPPVQOPFH-----TPQ 44

```

[illegible]

Search completed: November 10, 2004, 19:42:07
Job time : 8 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: November 10, 2004, 19:13:39 ; Search time 38 Seconds
(without alignments)
275.743 Million cell updates/sec

Title: US-09-743-533-19
Perfect score: 906
Sequence: 1 MROINPCSQELQSPQSYLO.....PPFQQPVPQQAQCIWSKV 158

Scoring table: BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 478139

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/ptodata/1/iaa/5A COMB.pdp.*
2: /cgn2_6/ptodata/1/iaa/5B COMB.pdp.*
3: /cgn2_6/ptodata/1/iaa/6A COMB.pdp.*
4: /cgn2_6/ptodata/1/iaa/6B COMB.pdp.*
5: /cgn2_6/ptodata/1/iaa/PCOTUS COMB.pdp.*
6: /cgn2_6/ptodata/1/iaa/backfiles1.pdp.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	262.5	29.0	1162	2	US-08-728-323A-2
2	262.5	29.0	1162	3	US-09-298-568-2
3	262.5	29.0	1162	4	US-09-410-399-2
4	262.5	29.0	1162	4	US-09-894-273-2
5	255.5	28.2	369	2	US-08-391-300-2
6	220.5	24.3	383	4	US-09-248-796A-23236
7	214	23.6	256	4	US-09-248-796A-21251
8	209	23.1	255	4	US-09-489-039A-9101
9	204	22.5	941	4	US-07-757-022B-14
10	204	22.5	1022	4	US-07-757-022B-84
11	204	22.5	1038	4	US-07-757-022B-74
12	204	22.5	1049	4	US-07-757-022B-58
13	204	22.5	1140	4	US-07-757-022B-104
14	204	22.5	1270	4	US-07-757-022B-44
15	204	22.5	1311	4	US-07-757-022B-42
16	204	22.5	1313	4	US-07-757-022B-142
17	204	22.5	1314	4	US-07-757-022B-50
18	204	22.5	1320	4	US-07-757-022B-46
19	204	22.5	1320	4	US-07-757-022B-60
20	204	22.5	1320	4	US-10-164-595-58
21	204	22.5	1354	4	US-07-757-022B-48
22	204	22.5	1361	4	US-07-757-022B-40
23	204	22.5	1363	4	US-07-757-022B-52
24	204	22.5	1404	4	US-07-757-022B-2
25	204	22.5	1404	4	US-07-757-022B-62
26	204	22.5	1404	4	US-10-164-595-78
27	204	22.5	1404	4	US-09-298-970A-1

Sequence 4333, Ap
Sequence 2, Appli
Sequence 1373, Ap
Sequence 2, Appli
Sequence 12097, A
Sequence 1, Appli
Sequence 17, Appli
Sequence 32, Appli
Sequence 16, Appli
Sequence 3, Appli
Sequence 4, Appli
Sequence 126, App
Sequence 14271, A
Sequence 24758, A
Sequence 1, Appli
Sequence 41, Appli
Sequence 71, Appli
Sequence 274, App

28 187 20.6 450 4 US-09-583-110-4333
29 187 20.6 1274 3 US-09-095-443-2
30 186 20.5 191 4 US-09-538-092-1379
31 184 20.3 667 2 US-08-718-661-2
32 184 20.3 1253 4 US-09-489-039A-12097
33 180 19.9 148 3 US-09-178-509-1
34 177.5 19.6 180 4 US-09-744-128-17
35 177.5 19.6 8991 4 US-08-714-741-32
36 175 19.3 194 4 US-09-744-128-16
37 173 19.1 579 4 US-09-568-119-3
38 172 19.0 788 2 US-08-918-914-4
39 171.5 18.9 254 4 US-09-216-393B-126
40 171 18.9 132 4 US-09-248-796A-14271
41 170 18.8 320 4 US-09-248-796A-24758
42 169 18.7 605 2 US-08-687-956A-1
43 169 18.7 1231 4 US-08-714-741-41
44 167.5 18.5 171 4 US-09-216-393B-71
45 167.5 18.5 171 4 US-09-216-393B-274

ALIGNMENTS

RESULT 1
US-08-728-323A-2
; Sequence 2, Application US/09728323A
; Patent No. 5948676
; GENERAL INFORMATION:
; APPLICANT: Chang, Yuan
; APPLICANT: Bohenzky, Roy A.
; APPLICANT: Russo, James J.
; APPLICANT: Edelman, Isidore S.
; APPLICANT: Moore, Patrick S.
; TITLE OF INVENTION: Immediate Early Protein From Kaposi's
; TITLE OF INVENTION: Sarcoma-Associated Herpesvirus, DNA
; TITLE OF INVENTION: Encoding Same And Uses Thereof
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/728,323A
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P.
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/52268/JPMW/MSC/SKS
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-278-0400
; TELEFAX: 212-391-0525
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1162 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-728-323A-2

Query Match 29.0%; Score 262.5; DB 2; Length 1162;
Best Local Similarity 46.8%; Pred. No. 1.2e-17;
Matches 74; Conservative 10; Mismatches 51; Indels 23; Gaps 8;
QY 2 RQINPCSQE-LQSPQSYLQPPQNPYPQPFPPQVQPFHTPQQVFPVLPPEL-PPQVQ 59

STATE: VA
COUNTRY: USA
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA: US/08/991,300
FILING DATE: 16-DEC-1997
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IT MI 96/A 002663
FILING DATE: 19-DEC-1996
ATTORNEY/AGENT INFORMATION:
NAME: OBLON, NORMAN F.
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 2264-0201-0X
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-413-3000
TELEFAX: 703-413-2220
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 369 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-991-300-2

Query Match 28.2%; Score 255.5; DB 2; Length 369;
Best Local Similarity 41.7%; Pred. No. 1.7e-17;
Matches 80; Conservative 10; Mismatches 59; Indels 43; Gaps 12;

QY 3 QLNPCSOELSPQSYLQPP-----YFQNPYLPOK-----PFPVQO--PF 40
DB 39 QQQPCSCQQQQPLSQQQPPFSQQQQQVLPVLPQQSFSSQQQLPFSQQQQPPF 98
QY 41 HTPQQYFPLPEE-LFPQYQIPTLPQPPFPQO-----PQPLRPQQPFPMPQO-QPFP 94
DB 99 SQQQQ--FVLPPQPSFSQQQLPFSQQQLPFSQQQLPFSQQQLPFSQQQLPFS 156
QY 95 QPQEPF-PQPPQPPFPQQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPP 148
DB 157 QQQQVLPQPP--PFSQQQQQPP--PQQPPFSQQQQQVLLQQIIPFVHPSILOQLNPK 212
QY 149 ---QQASCIWS 157
DB 213 VFLQQCSPWAM 224

RESULT 6
US-09-248-796A-23236
; Sequence 23236, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; PRIOR FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 23236
; LENGTH: 383
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-23236

Query Match 24.3%; Score 220.5; DB 4; Length 383;
Best Local Similarity 42.2%; Pred. No. 4.6e-14;
Matches 65; Conservative 13; Mismatches 53; Indels 23; Gaps 11;
QY 12 QSPQQSYLQPPYQNPYLPOKP--FVQQQFFHTPQQYFYLPEELFP---QYCIPTLPQ 66
DB 7 QDPREYFQPPMPAMPAPAIPAIVILPVQ--FOQLNQQP-LPOQFPFPQQFQPPFPQ 63
QY 67 -QPPF-PQQPQQPLPRPQ-QPPFWQPPQPPFPQ---QETIPQO--PQQPFPQO--PQQP 116
DB 64 FQPPVPFPQPPQPPFPQPPFPVQPPVQPPVQPPVQPPVQPPVQPPVQPPVQPP 123
QY 117 PQ-----QPQIIFQPPQSYVQPPQPPFPQ 145
DB 124 PQAPSPAPSPVSPSPAPAPLLELPLTPPPFPQ 157

RESULT 7
US-09-248-796A-21251
; Sequence 21251, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; PRIOR FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 21251
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Candida albicans
; NAME/KEY: UNSURE
; LOCATION: (250)
; OTHER INFORMATION: Identity of amino acid sequences at the above locations are unknown
US-09-248-796A-21251

Query Match 23.6%; Score 214; DB 4; Length 256;
Best Local Similarity 38.7%; Pred. No. 1.3e-13;
Matches 63; Conservative 20; Mismatches 62; Indels 18; Gaps 7;
QY 6 PCSQELSPQSYLQPPYQ---NPYLPQKPPFPVQPPFPHTPQQYFYLPEELFPQYIPT 62
DB 75 PPQEQRPQKYPQPPQPPQSPQPPHYQQQQQQPPRQQQLYSFQ---VQQQYHQQQQQQL 131
QY 53 PLOPQPPFPQPPQPPPLPRPQPPFPWQPPQPPFPQPPFPQPPFPQPPFPQPPFP 120
DB 132 QQQQQQY:QCKKFKQLQPPQPPLOQQQPP-PQ-QQHYQKQPPQPPQPPHVRPFPQPP 189
QY 121 QQIIFQPPQSYVQPPFPQ-----QPQVPPQASCIWS 156
DB 190 QQQLSCAVRAAPPTQKQPPQPPQQLYGRSQPSFP-QGTTKWS 231

RESULT 8
US-09-489-039A-9101
; Sequence 9101, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747


```

; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-07-757-022B-84

Query Match      22.5%; Score 204; DB 4; Length 1022;
Best Local Similarity 30.2%; Pred. No. 5.6e-12;
Matches 42; Conservative 28; Mismatches 59; Indels 10; Gaps 4;

QY 12 QSQOQSYLQOQYFQNPYLQKPPVQOQPPHPTQOYFYLPELFPQYQIPTLQOQPPF 71
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 276 KEPAPTTTKEPAPTTTKEP-APTITKEPAPTTTKSAPTTPKE-----PAPTTKDPAP 327
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 72 QOQOQPLP-RPOQPFQOQPPFQOQPIPOQOQPPFQOQPPFQOQPPFQOQPIFOQOQQ 130
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 328 TTPKEPAPTTTKEPPTTTPKEPAPTTTKEPAPTTTKEPAPTTTKEPAPTTTKEP 387
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 131 SYVQOQOQPPQOQ-QPVP 148
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 388 PAPTTTKEPSPPTTKEPAP 406
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 11
US-07-757-022B-74
; Sequence 74, Application US/07757022B
; Patent No. 6433142
; GENERAL INFORMATION:
; APPLICANT: Gesner, Thomas G.
; APPLICANT: Clark, Stephen C.
; APPLICANT: Turner, Katherine
; APPLICANT: Hewick, Rodney M.
; TITLE OF INVENTION: Megakaryocyte Stimulating Factors
; NUMBER OF SEQUENCES: 143
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genetics Institute, Inc.
; STREET: 87 CambridgePark Drive
; CITY: Cambridge
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02140
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/757,022B
; FILING DATE: 19910910
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/643,502
; FILING DATE: 18-JAN-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/546,114
; FILING DATE: 29-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/457,196
; FILING DATE: 29-DEC-1989
; APPLICATION NUMBER: US 07/390,901
; FILING DATE: 08-AUG-1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Cseri, Luann
; REGISTRATION NUMBER: 31,822
; REFERENCE/DOCKET NUMBER: GI 5190
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)876-1170
; TELEFAX: (617)876-5851
; INFORMATION FOR SEQ ID NO: 74:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1038 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein

US-07-757-022B-74
Query Match      22.5%; Score 204; DB 4; Length 1038;
Best Local Similarity 30.2%; Pred. No. 5.7e-12;
Matches 42; Conservative 28; Mismatches 59; Indels 10; Gaps 4;

QY 12 QSQOQSYLQOQYFQNPYLQKPPVQOQPPHPTQOYFYLPELFPQYQIPTLQOQPPF 71
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 260 KEPAPTTTKEPAPTTTKEP-APTITKEPAPTTTKSAPTTPKE-----PAPTTKDPAP 311
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 72 QOQOQPLP-RPOQPFQOQPPFQOQPIPOQOQPPFQOQPPFQOQPPFQOQPIFOQOQQ 130
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 312 TTPKEPAPTTTKEPPTTTPKEPAPTTTKEPAPTTTKEPAPTTTKEPAPTTTKEP 371
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 131 SYVQOQOQPPQOQ-QPVP 148
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 372 PAPTTTKEPSPPTTKEPAP 390
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 12
US-07-757-022B-58
; Sequence 58, Application US/07757022B
; Patent No. 6433142
; GENERAL INFORMATION:
; APPLICANT: Gesner, Thomas G.
; APPLICANT: Clark, Stephen C.
; APPLICANT: Turner, Katherine
; APPLICANT: Hewick, Rodney M.
; TITLE OF INVENTION: Megakaryocyte Stimulating Factors
; NUMBER OF SEQUENCES: 143
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genetics Institute, Inc.
; STREET: 87 CambridgePark Drive
; CITY: Cambridge
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02140
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/757,022B
; FILING DATE: 19910910
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/643,502
; FILING DATE: 18-JAN-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/546,114
; FILING DATE: 29-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/457,196
; FILING DATE: 29-DEC-1989
; APPLICATION NUMBER: US 07/390,901
; FILING DATE: 08-AUG-1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Cseri, Luann
; REGISTRATION NUMBER: 31,822
; REFERENCE/DOCKET NUMBER: GI 5190
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)876-1170
; TELEFAX: (617)876-5851
; INFORMATION FOR SEQ ID NO: 58:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1049 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein

US-07-757-022B-58
```

Query Match 22.5%; Score 204; DB 4; Length 1049;

Best Local Similarity 30.2%; Pred. No. 5.8e-12;

Matches 42; Conservative 28; Mismatches 59; Indels 10; Gaps 4;

QY 12 QSPQSYLQOQYPQNPYLQKPFVQOQPFHTPQOYFVYLPEELFPQYQIPTLPLOQOQPP 71

Db 303 KEPAATTTKEPATTTKEP-APTITKEPATTTKSAPTTKE-----PATTTKKPAP 354

QY 72 QOQOQPLP-RPOQPFPMQOQPFQOQPIQOQOQOQOQOQOQOQOQOQOQOQOQOQ 130

Db 355 TTPKEPATTTKEPATTTKEPATTTKEPATTTKEPATTTKEPATTTKEPATTTTKE 414

QY 131 SYPVQOQOQPFQOQ-OPVP 148

Db 415 PATTTKEPSTTTKEPAP 433

RESULT 13

US-07-757-022B-104

; Sequence 104, Application US/07757022B

; Patent No. 6433142

; GENERAL INFORMATION:

; APPLICANT: Gesner, Thomas G.

; APPLICANT: Clark, Stephen C.

; APPLICANT: Turner, Katherine

; APPLICANT: Hewick, Rodney M.

; TITLE OF INVENTION: Megakaryocyte Stimulating Factors

; NUMBER OF SEQUENCES: 143

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Genetics Institute, Inc.

; STREET: 87 CambridgePark Drive

; CITY: Cambridge

; STATE: Massachusetts

; COUNTRY: U.S.A.

; ZIP: 02140

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/07757,022B

; FILING DATE: 19910910

; CLASSIFICATION: 530

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 07/643,502

; FILING DATE: 18-JAN-1991

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 07/546,114

; FILING DATE: 29-JUN-1990

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 07/457,196

; FILING DATE: 29-DEC-1989

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 07/390,901

; FILING DATE: 08-AUG-1989

; ATTORNEY/AGENT INFORMATION:

; NAME: Cserr, Luann

; REGISTRATION NUMBER: 31,822

; REFERENCE/DOCKET NUMBER: GI 5190

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (617)876-1170

; TELEFAX: (617)876-5851

; INFORMATION FOR SEQ ID NO: 104:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 1140 amino acids

; TYPE: AMINO ACID

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-07-757-022B-104

Query Match

Best Local Similarity 22.5%; Score 204; DB 4; Length 1140;

Matches 42; Conservative 28; Mismatches 59; Indels 10; Gaps 4;

Matches 42; Conservative 28; Mismatches 59; Indels 10; Gaps 4;

QY 12 QSPQSYLQOQYPQNPYLQKPFVQOQPFHTPQOYFVYLPEELFPQYQIPTLPLOQOQPP 71

Db 394 KEPAATTTKEPATTTKEP-APTITKEPATTTKSAPTTKE-----PATTTKKPAP 445

QY 72 QOQOQPLP-RPOQPFPMQOQPFQOQPIQOQOQOQOQOQOQOQOQOQOQOQOQOQ 130

Db 446 TTPKEPATTTKEPATTTKEPATTTKEPATTTKEPATTTKEPATTTKEPATTTTKE 505

QY 131 SYPVQOQOQPFQOQ-OPVP 148

Db 506 PATTTKEPSTTTKEPAP 524

RESULT 14

US-07-757-022B-44

; Sequence 44, Application US/07757022B

; Patent No. 6433142

; GENERAL INFORMATION:

; APPLICANT: Gesner, Thomas G.

; APPLICANT: Clark, Stephen C.

; APPLICANT: Turner, Katherine

; APPLICANT: Hewick, Rodney M.

; TITLE OF INVENTION: Megakaryocyte Stimulating Factors

; NUMBER OF SEQUENCES: 143

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Genetics Institute, Inc.

; STREET: 87 CambridgePark Drive

; CITY: Cambridge

; STATE: Massachusetts

; COUNTRY: U.S.A.

; ZIP: 02140

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/07757,022B

; FILING DATE: 19910910

; CLASSIFICATION: 530

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 07/643,502

; FILING DATE: 18-JAN-1991

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 07/546,114

; FILING DATE: 29-JUN-1990

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 07/457,196

; FILING DATE: 29-DEC-1989

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 07/390,901

; FILING DATE: 08-AUG-1989

; ATTORNEY/AGENT INFORMATION:

; NAME: Cserr, Luann

; REGISTRATION NUMBER: 31,822

; REFERENCE/DOCKET NUMBER: GI 5190

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (617)876-1170

; TELEFAX: (617)876-5851

; INFORMATION FOR SEQ ID NO: 44:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 1270 amino acids

; TYPE: AMINO ACID

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-07-757-022B-44

Query Match

Best Local Similarity 22.5%; Score 204; DB 4; Length 1270;

Matches 42; Conservative 28; Mismatches 59; Indels 10; Gaps 4;

QY 12 QSPQSYLQQYPQNPYLPQKPPVQOPFHTPQOYFVLPBEEFPQYQIPTLPLOQPPF 71
 Db 260 KPAATTTKEPAPTTTKEP-APTITKEPAPTTTTSAPTKE-----PAPTTKKEPAP 311
 QY 72 QOQOQPLP-RPQOQFPPWQOQFPPQOQPIPOQOQFPPQOQFPPQOQOIIIFQOQ 130
 Db 312 TTPKEPAPTTKEPTTTPKEPAPTTTKEPAPTTTKEPAPTTTKEPAPTTTKE 371
 QY 131 SYPVQOQFPPQOQ-OPVP 148
 Db 372 PAPTTTKEPSPTTKEPAP 390

RESULT 15

US-07-757-022B-42
 ; Sequence 42, Application US/07757022B
 ; Patent No. 6433142
 ; GENERAL INFORMATION:
 ; APPLICANT: Geener, Thomas G.
 ; APPLICANT: Clark, Stephen C.
 ; APPLICANT: Turner, Katherine
 ; APPLICANT: Hewick, Rodney M.
 ; TITLE OF INVENTION: Megakaryocyte Stimulating Factors
 ; NUMBER OF SEQUENCES: 143
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Genetics Institute, Inc.
 ; STREET: 87 CambridgePark Drive
 ; CITY: Cambridge
 ; STATE: Massachusetts
 ; COUNTRY: U.S.A.
 ; ZIP: 02140
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/07/757,022B
 ; FILING DATE: 19910910
 ; CLASSIFICATION: 530
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/643,502
 ; FILING DATE: 18-JAN-1991
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/546,114
 ; FILING DATE: 29-JUN-1990
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/457,196
 ; FILING DATE: 29-DEC-1989
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/390,901
 ; FILING DATE: 08-AUG-1989
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Cserr, Luann
 ; REGISTRATION NUMBER: 31,822
 ; REFERENCE/DOCKET NUMBER: GI 5190
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (617)876-1170
 ; TELEFAX: (617)876-5851
 ; INFORMATION FOR SEQ ID NO: 42:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 1311 amino acids
 ; TYPE: AMINO ACID
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-07-757-022B-42

Query Match 22.5%; Score 204; DB 4; Length 1311;
 Best Local Similarity 30.2%; Pred. No. 7.4e-12;
 Matches 42; Conservative 28; Mismatches 59; Indels 10; Gaps 4;

QY 12 QSPQSYLQQYPQNPYLPQKPPVQOQFHTPQOYFVLPBEEFPQYQIPTLPLOQPPF 71

Db 301 KEPAATTTKEPAPTTTKEP-APTITKEPAPTTTTSAPTKE-----PAPTTKKEPAP 352
 QY 72 QOQOQPLP-RPQOQFPPWQOQFPPQOQPIPOQOQFPPQOQFPPQOQOIIIFQOQ 130
 Db 353 TTPKEPAPTTKEPTTTPKEPAPTTTKEPAPTTTKEPAPTTTKEPAPTTTKE 412
 QY 131 SYPVQOQFPPQOQ-OPVP 148
 Db 413 PAPTTTKEPSPTTKEPAP 431

Search completed: November 10, 2004, 19:33:58
 Job time : 46 secs

Result No.	Score	Query Match	Length	DB ID	Description
1	412	45.5	327	17	US-10-739-930-9623
2	347	38.3	298	17	US-10-739-930-9621
3	270	29.6	298	17	US-10-739-930-9770
4	262.5	29.0	1162	11	US-09-894-273-2
5	262.5	29.0	1162	14	US-10-294-804-2
6	246	27.2	1351	15	US-10-282-122A-75147
7	244.5	27.0	1343	15	US-10-282-122A-75965
8	244.5	27.0	1362	9	US-09-815-242-14009
9	236.5	26.1	319	17	US-10-739-930-9619
10	233.5	25.8	287	17	US-10-739-930-9777
11	223	24.6	309	17	US-10-435-115-208032
12	222	24.5	296	9	US-09-789-054A-10
13	222	24.5	296	15	US-10-374-780A-824
					Sequence 9623, Ap
					Sequence 9621, Ap
					Sequence 9770, Ap
					Sequence 2, Appl
					Sequence 2, Appl
					Sequence 75147, A
					Sequence 75965, A
					Sequence 14009, A
					Sequence 9619, Ap
					Sequence 9777, Ap
					Sequence 208032,
					Sequence 10, Appl
					Sequence 824, App

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QY 152 -----SCIWSMV 158
Db 192 CKPASLVSSLWSII 205

RESULT 2
US-10-739-930-9621
; Sequence 9621, Application US/10739930
; Publication No. US20040216190A1
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
; TITLE OF INVENTION: PLANTS AND USES THEREOF FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53377)B
; CURRENT APPLICATION NUMBER: US/10/739,930
; CURRENT FILING DATE: 2003-12-18
; NUMBER OF SEQ ID NOS: 11088
; SEQ ID NO 9621
; LENGTH: 298
; TYPE: PRT
; ORGANISM: Triticum aestivum
; FEATURE:
; OTHER INFORMATION: Clone ID: TRIAB-23APR03-CL125_65.p
US-10-739-930-9621

Query Match 38.3%; Score 347; DB 17; Length 298;
Best Local Similarity 45.0%; Pred. No. 4e-19;
Matches 86; Conservative 11; Mismatches 24; Indels 70; Gaps 11;

QY 3 QLNPCSOELQSPQSYLQPPYQNPYLPKPPYQPPHPTPQQYFPYLPPELFPQVQIPT 62
Db 22 QVDPSSQ-VQMPQ-----QQPVQ-----PHQPFSSQ-----PQOTFP----- 53
QY 63 PLQCPQPPFPQPPFLPFPQFFFWQPPFPQPPFPQPPFPQPPFPQPPFPQPPFPQPPFP 120
Db 54 --QPQTFPHQPPQPPQPPQ-----QPQQQLQPPFPQPPFPQPPFPQPPFPQPPFPQPP 106
QY 121 QQII-----PQPPQSY--PVQPPQPPFPQPP-----QVPPQ----- 150
Db 107 QQLFPQSQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPP 166
QY 151 ---ASCIWSMV 158
Db 167 VSLVSSLWSMI 177

RESULT 3
US-10-739-930-9770
; Sequence 9770, Application US/10739930
; Publication No. US20040216190A1
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
; TITLE OF INVENTION: PLANTS AND USES THEREOF FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53377)B
; CURRENT APPLICATION NUMBER: US/10/739,930
; CURRENT FILING DATE: 2003-12-18
; NUMBER OF SEQ ID NOS: 11088
; SEQ ID NO 9770
; LENGTH: 298
; TYPE: PRT
; ORGANISM: Triticum aestivum
; FEATURE:
; OTHER INFORMATION: Clone ID: TRIAB-23APR03-CL176_183.p
US-10-739-930-9770

Query Match 29.8%; Score 270; DB 17; Length 298;
Best Local Similarity 32.1%; Pred. No. 3.2e-13;
Matches 79; Conservative 16; Mismatches 43; Indels 108; Gaps 11;

QY 3 QLNPCSOELQSPQSYLQPPYQNPYLPKPPYQPPHPTPQQYFPYLPPELFPQ 57
Db 27 QLPQNPFSQQPPQKQVPLVQQQPPGQQQPPFPQPPFPQPPFPQPPFPQPPFPQPP 83

QY 58 YQIPTPLQCPFPQPPQPPQPLP-RPQPPFPQPPQPPFPQPPFPQPPFPQPPFPQPP 107
Db 84 POLPYP-QPQLYP-----QPQFRPQQSY-P-QPQYSPQPPQPPISQQQQQQQQQQQQ 137
QY 108 ----- 107
Db 138 ILQQILQQQLIFCRDVLVQLQHSIAHGSQVLQCSYQLVQVQFCCQQLWQIPEQSRCAIH 197
QY 108 -----FPQPPQPPFPQPP-QQIFQPPQPSYP-----VQPPQPPFPQ-----Q 143
Db 198 NVVHAILLQHHHRRQQQQQQQQQQQLSLQSVSFQPPQPPQPPQPPQPPQPPQPPQ 257
QY 144 POPVPQ 149
Db 258 PQQLPQ 263

RESULT 4
US-09-894-273-2
; Sequence 2, Application US/09894273
; Publication No. US20040037847A1
; GENERAL INFORMATION:
; APPLICANT: Kieff, Elliott D.
; APPLICANT: Ballestas, Mary E.
; APPLICANT: Kaye, Kenneth M.
; TITLE OF INVENTION: RHADINO VIRUS LANA ACTS IN TRANS ON A UNIT OF RHADINO
; TITLE OF INVENTION: VIRUS DNA TO MEDIATE EFFICIENT EPISOME PERSISTENCE
; FILE REFERENCE: 16412-10001R
; CURRENT APPLICATION NUMBER: US/09/894,273
; CURRENT FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/109,422
; PRIOR FILING DATE: 1998-11-19
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 1162
; TYPE: PRT
; ORGANISM: Kaposi's sarcoma-associated herpesvirus
US-09-894-273-2

Query Match 29.0%; Score 262.5; DB 11; Length 1162;
Best Local Similarity 46.8%; Pred. No. 4.2e-12;
Matches 74; Conservative 10; Mismatches 51; Indels 23; Gaps 8;

QY 2 RQINPCSOE-LQSPQSYLQPPYQNPYLPKPPYQPPHPTPQQYFPYLPPEL-FPQYQ 59
Db 453 QQQEPQQQEPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPP 502
QY 60 IPTPLQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPP 115
Db 503 EQQEPQQQEPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPP 562
QY 116 FPQYQ-QPQIFQPPQPSYPVQ--PQPPFPQPPQPPVPQ 149
Db 563 EPQOREPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPPQPP 597

RESULT 5
US-10-294-804-2
; Sequence 2, Application US/10294804
; Publication No. US20030133948A1
; GENERAL INFORMATION:
; APPLICANT: Robertson, Erle S.
; APPLICANT: Cotter, Murray A.
; TITLE OF INVENTION: Methods to Inhibit or Enhance the Binding of Viral DNA
; TITLE OF INVENTION: to Genomic Host DNA
; FILE REFERENCE: UM-03778
; CURRENT APPLICATION NUMBER: US/10/294,804
; CURRENT FILING DATE: 2002-11-14
; PRIOR APPLICATION NUMBER: US/09/410,399
; PRIOR FILING DATE: 1999-10-01
; NUMBER OF SEQ ID NOS: 6

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; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 1162
; TYPE: PRT
; ORGANISM: Kaposi's sarcoma-associated herpesvirus
; US-10-294-804-2

Query Match      29.0%; Score 262.5; DB 14; Length 1162;
Best Local Similarity 46.8%; Pred. No. 4.2e-12;
Matches 74; Conservative 10; Mismatches 51; Indels 23; Gaps 8;

QY 2 ROLNPSOE-LQSPQSYLQOYPQNPYLPKRPFPVQOQFHPIPOQYFFVLPPEL-PPQVQ 59
Db 453 QOQEQPQOQEPLOEPQOQEPQOQ-----QEPLOEPQOQEPQOQEPLOEPQOQ 502
QY 60 IPTPLPQOQFPQOQ--PQOPLRPQOQFPQOQPPQOQEPQOQEPQOQFPQOQ--PQOQ 115
Db 503 EPQOQEPQOQEPQOQEPQOQEPQOQEPQOQEPQOQEPQOQEPQOQEPQOQEPQOQ 562
QY 116 FPQO--PQIIFQOQSQSYVQ--PQOFPQOQPVQ 149
Db 563 EPQOQEPQOQ---REPQOQEPQOQEPQOQEPQOQEPQOQEPQOQEPQOQEPQOQ 597

RESULT 6
US-10-282-122A-75147
; Sequence 75147, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR FILING DATE: 2000-03-21
; PRIOR FILING DATE: 2000-05-23
; PRIOR FILING DATE: 2000-05-26
; PRIOR FILING DATE: 2000-09-06
; PRIOR FILING DATE: 2000-09-09
; PRIOR FILING DATE: 2000-11-27
; PRIOR FILING DATE: 2001-02-09
; PRIOR FILING DATE: 2001-02-16
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 75147
; LENGTH: 1351
; TYPE: PRT
; ORGANISM: Salmonella typhimurium
; US-10-282-122A-75147

Query Match      27.2%; Score 246; DB 15; Length 1351;
Best Local Similarity 41.0%; Pred. No. 9e-11;
Matches 77; Conservative 12; Mismatches 49; Indels 50; Gaps 14;

QY 2 ROLNPSOELOSPQOOSYLQOQY-----PQNP-----YLPQKFPFVQOQ 39
Db 670 RQFAASQOQRYSGEPAGAPFSLDDLDFSEPMKVLVDEGPHFLTEGVNPEST-PVQOQ 728
QY 40 -----FHTPQOYFFVLPPELFPQOYQIP-TLPQOQPPFPQOQOPL-PRPQOQFVQOQ 89
Db 729 VAPOQOQOQOQOQ--PVAPO--PQYQOQOQVAP-QFYQOQOQVAPQOYQ---QP 779
QY 90 QOQF-PQOQEPQOQOQOQF--QOQOQFQOQOQIIFQOQOQSYVQOQPPFPQOQ 146
Db 780 QQPVAPOQOQOQOQVAPQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQOQ 834
QY 147 VPQOQASCI 154
Db 835 TAPQOQSLI 842

RESULT 7
US-10-282-122A-75965
; Sequence 75965, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR FILING DATE: 2000-03-21
; PRIOR FILING DATE: 2000-05-23
; PRIOR FILING DATE: 2000-05-26
; PRIOR FILING DATE: 2000-09-06
; PRIOR FILING DATE: 2000-09-09
; PRIOR FILING DATE: 2000-11-27
; PRIOR FILING DATE: 2001-02-09
; PRIOR FILING DATE: 2001-02-16
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 75965
; LENGTH: 1343
; TYPE: PRT
; ORGANISM: Salmonella typhi
; US-10-282-122A-75965

Query Match      27.0%; Score 244.5; DB 15; Length 1343;
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[illegible]

```

RESULT 11
US-10-425-115-208032
; Sequence 208032, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Planes
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 208032
; LENGTH: 309
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_121319C.1.pep
US-10-425-115-208032

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Query Match	24.6%;	Score 223;	DB 17;	Length 309;
Best Local Similarity	32.3%;	Pred. No. 1.4e-09;		
Matches	63;	Conservative 17;	Mismatches 57;	Indels 58; Gaps 10;
QY	2	RQLNFCQELSQSQSQQSLVQPF-YFQNPYLPOKPPVQQP-----FHTPQQYFYFLDEEL	54	
Db	29	RQL-----QELPKDLPPLPKSEVPRPDLPLPKPEEQPLPKBELVPVPPQLIPPPQL	84	
QY	55	FPQYCIPTFLQ-----PQQFFQQQZ-----QPLPRQQPFWPQQPFPPOQ	97	
Db	85	-PKDELVPVPEELVPVPPQLEVPVPPQPLPKPEALVPVPEELVPVPPQLP-VPPQPLPKPE	142	
QY	98	EPIDQQ-----PQQFFPQQPQQPFPQQPQIIFQQPQQSYVQPO-----	137	
Db	143	LPVPEELVPVPEQLVPVPPQPLPKPDNDNEVPEP-----LPKDELVPVPPQLNPPELPV	196	
QY	138	--QFPFQQPQVPVQQ	150	
Db	197	PPEPLPKPELFPVPPQ	211	

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RESULT 12
US-09-789-054A-10
; Sequence 10, Application US/09789054A
; Publication No. US20020184659A1
; GENERAL INFORMATION:
; APPLICANT: Allen, Steve
; APPLICANT: Zhu, Qun
; TITLE OF INVENTION: PLANT GENES ENCODING DR1 AND DRAP1, A GLOBAL REPRESSOR COMPLEX OF
; TITLE OF INVENTION: TRANSCRIPTION
; FILE REFERENCE: BB1107 US CIP
; CURRENT APPLICATION NUMBER: US/09/789,054A
; CURRENT FILING DATE: 2001-02-20

```

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; PRIOR APPLICATION NUMBER: 09/485558
; PRIOR FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: PCT/US98/16688
; PRIOR FILING DATE: 1998-08-12
; PRIOR APPLICATION NUMBER: 60/055,865
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 69
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 10
; LENGTH: 296
; TYPE: PR1
; ORGANISM: Oryza sativa
US-09-789-054A-10

Query Match          24.5%; Score 222; DB 9; Length 296;
Best Local Similarity 43.6%; Pred. No. 1.1e-09;
Matches              65; Conservative 10; Mismatches 52; Indels 22; Gaps 9

Qy      6 PCSQLSQPQSGLQQYFQNPNVLPQRFFVQQPFHTPQQYFYFLPEELFPQVIPTPLQ 65
Db      143 PKRPFEPFAQQDTQ-QPPQQLHPDQGFQPLQFLQLH-PQ-----PQQQ-PSQLH 188

Qy      66 PQQPF-PQQQPQLPRPQ-QPFFWQQQPPFPQP---QEP-IPQ--QPQQFFQPPQQPPF 117
Db      189 PQLLHPFSQQTFPQFQPVHVHPQQPQPLQFQPCLLQQFQLPQLQLPQSQLPQPQCQPQ 248

Qy      118 QQPQQIIFQQPQQSYVPQVFQPPFQQFQP 146
Db      249 LQLGSLHFCBPQCPCLQFQPOLHCQFOP 277
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RESULT 13
US-10-374-780A-824
; Sequence 824, Application US/10374780A
; Publication No. US20040019927A1
; GENERAL INFORMATION:
; APPLICANT: Sherman, Bradley K
; APPLICANT: Riechmann, Jose Luis
; APPLICANT: Jiang, Cai-Zhong
; APPLICANT: Heard, Jacqueline E
; APPLICANT: Haake, Volker
; APPLICANT: Creelman, Robert A
; APPLICANT: Ratcliffe, Oliver
; APPLICANT: Adam, Luc J
; APPLICANT: Reuber, T. Lynne
; APPLICANT: Keddle, James
; APPLICANT: Broun, Pierre E
; APPLICANT: Pilgrim, Marsha L
; APPLICANT: Dubell III, Arnold T
; APPLICANT: Pineda, Omaira
; APPLICANT: Yu, Guo-Liang
; TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES IN PLANTS
; FILE REFERENCE: MBI-0047 CIP
; CURRENT APPLICATION NUMBER: US/10/374,780A
; CURRENT FILING DATE: 2003-02-25
; PRIOR APPLICATION NUMBER: 09/837,944
; PRIOR FILING DATE: 2001-04-18
; PRIOR APPLICATION NUMBER: 60/310,847
; PRIOR FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 09/934,455
; PRIOR FILING DATE: 2001-08-22
; PRIOR APPLICATION NUMBER: 60/336,049
; PRIOR FILING DATE: 2001-11-19
; PRIOR APPLICATION NUMBER: 60/338,692
; PRIOR FILING DATE: 2001-12-11
; PRIOR APPLICATION NUMBER: 10/171,468
; PRIOR FILING DATE: 2002-06-14
; PRIOR APPLICATION NUMBER: 10/225,066
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: 10/225,067
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: 10/225,068
; PRIOR FILING DATE: 2002-08-09

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; NUMBER OF SEQ ID NOS: 2906
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 824
; LENGTH: 296
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Orthologous to G484
US-10-374-780A-824

Query Match      24.5%; Score 222; DB 15; Length 296;
Best Local Similarity 43.6%; Pred. No. 1.6e-09;
Matches 65; Conservative 10; Mismatches 52; Indels 22; Gaps 9;

QY 6 PCSQELQSPQSYLQQYPQNPYLPQKFFVQQPFHTPQQYFYLPEELFPQYQIPTPLQ 65
DB 143 PKEPEPEAQQTQ-QPPQQLHPQPPQQLPQLQLH-PQ-----PQQQ-PSQLH 188

QY 66 PQQPF-PQQPQPLPRQ-QFFFWQPPFPQ---QEP-IPQ--QPQPPFPQPPFP 117
DB 189 PQQLHPQSQTTPQPPVHFQPPQPPQLQPPQLQPPQLQPPQLQPPQLQPP 248

QY 118 QPQOIIFQQPQSYVPQPPFPQPP 146
DB 249 LQLSQLHPQPPQPPQLQPPQLHQQPP 277

Query Match      24.5%; Score 222; DB 16; Length 296;
Best Local Similarity 43.6%; Pred. No. 1.6e-09;
Matches 65; Conservative 10; Mismatches 52; Indels 22; Gaps 9;

QY 6 PCSQELQSPQSYLQQYPQNPYLPQKFFVQQPFHTPQQYFYLPEELFPQYQIPTPLQ 65
DB 143 PKEPEPEAQQTQ-QPPQQLHPQPPQQLPQLQLH-PQ-----PQQQ-PSQLH 188

QY 66 PQQPF-PQQPQPLPRQ-QFFFWQPPFPQ---QEP-IPQ--QPQPPFPQPPFP 117
DB 189 PQQLHPQSQTTPQPPVHFQPPQPPQLQPPQLQPPQLQPPQLQPPQLQPP 248

QY 118 QPQOIIFQQPQSYVPQPPFPQPP 146
DB 249 LQLSQLHPQPPQPPQLQPPQLHQQPP 277

Search completed: November 10, 2004, 19:44:37
Job time : 145 secs
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